

Disaster Medicine – Programme of lectures

1. An introduction to disaster medicine. Chemical disasters.
2. General toxicology. Basic concepts. Nature of toxic effects. Biotransformation of xenobiotics. Principles of therapy of intoxication.
3. Toxicology of anticholinesterase pesticides. Toxicology of chemical warfare agents.
4. Toxicology of carbon monoxide, carbon dioxide and cyanide.
5. Toxicology of pulmonary-inducing compounds – phosgene, chlorine, ammonia, nitrogen oxides. Modern riot control agents.
6. Toxicology of solvents. Narcosis.
7. Physics of radiation biology. Basic concepts of dosimetry. Biological effects of ionizing radiation.
8. Radiation effects on the molecular, cellular and tissue levels.
9. Total body radiation syndromes. Radioprotectors.
10. Late effects of radiation – somatic and genetic. Radiation dermatitis.
11. Radiotoxicology.
12. Nuclear radiation accidents. Protective actions after nuclear accidents.
13. Organization of medical care in disaster situation.
14. Pre-hospital care. Medical and rescue teams. Crush syndrome.
15. Disaster management. Advanced medical post. Triage.